# Enterprise PI System Deployment: Rapidly adopting Asset Framework

Presented by

Husain Al-Shaikh – Systems Engineer

Chris Coen – Product Manager

Tom LeBay - Product Manager

#### **Agenda**

- PI Asset Based Example Kits
- Transformation of AF models
- Your response to Asset Based systems

#### **Responding to Poll**



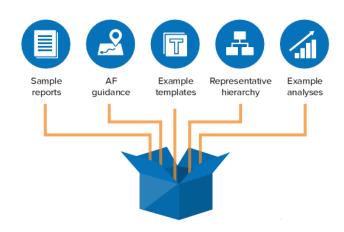


Text voting



#### PI Asset Based Example Kits

- What is an Example Kit?
- Why should I use it?
- Where can I find it?
- How to use it?



#### An example kit is a learning tool and a starting point for AF.

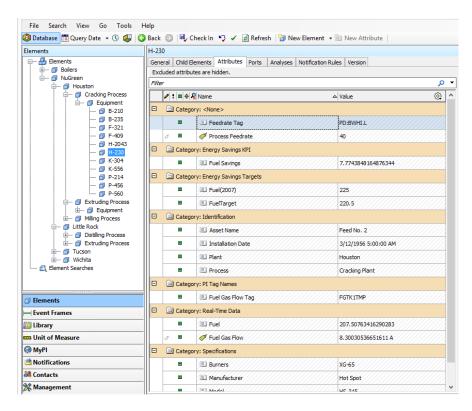




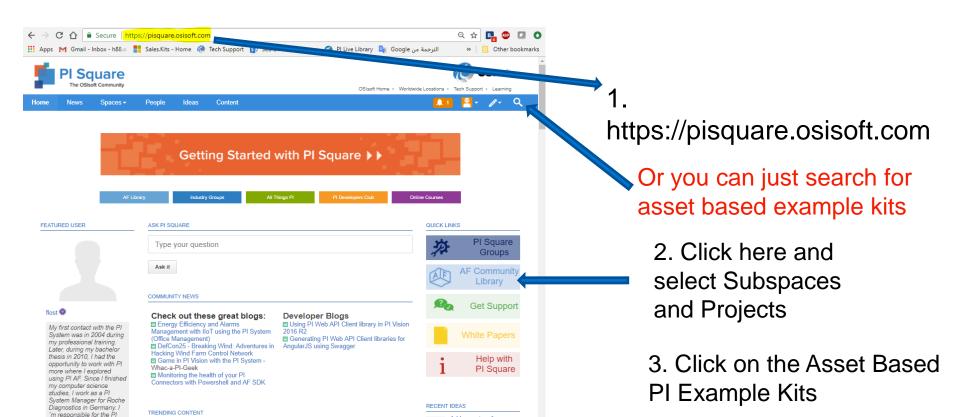
- Focus is on **solving a business problem** with AF
- Broadly applicable to one or more industries
- Simple implementation of common uses of AF

#### **Asset Based Example Kits VISION**

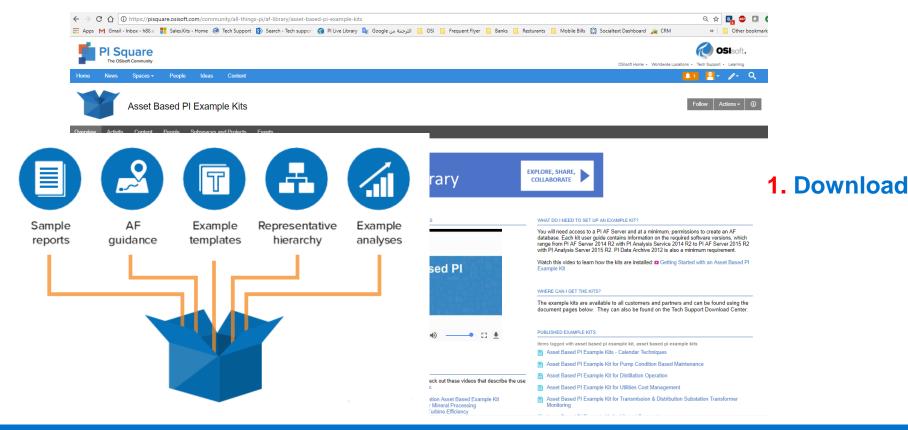
The goal of the AF Community
Library is to encourage and
empower members of the
OSIsoft community to explore,
share, and collaborate on tools
and ideas for solving business
problems with asset-based PI.



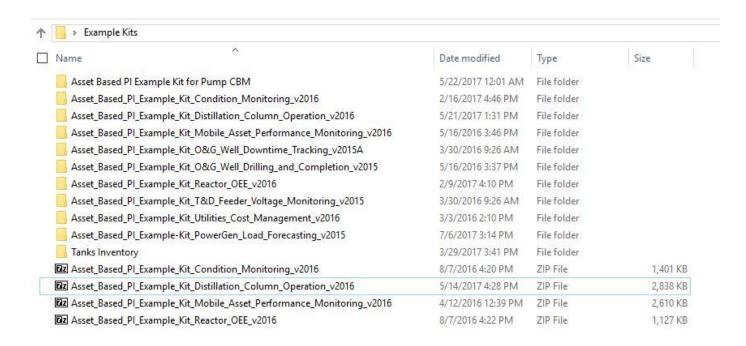
#### Easy Access to Asset Based Example Kits from PI Square



#### Each kit is coming with guide files & video



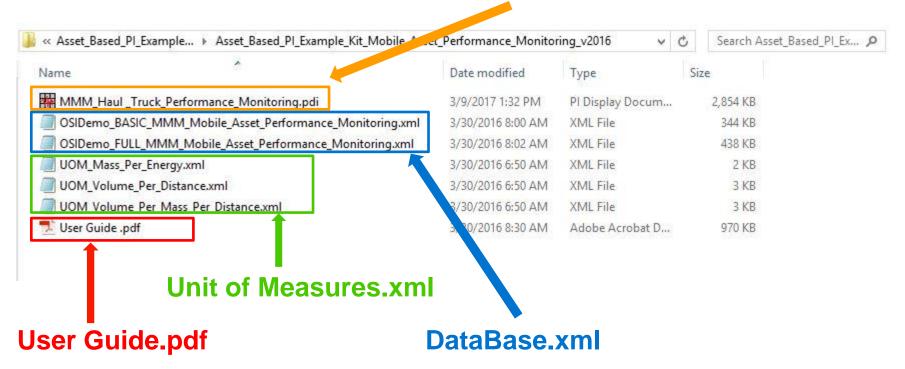
#### **Straight Forward Procedure**



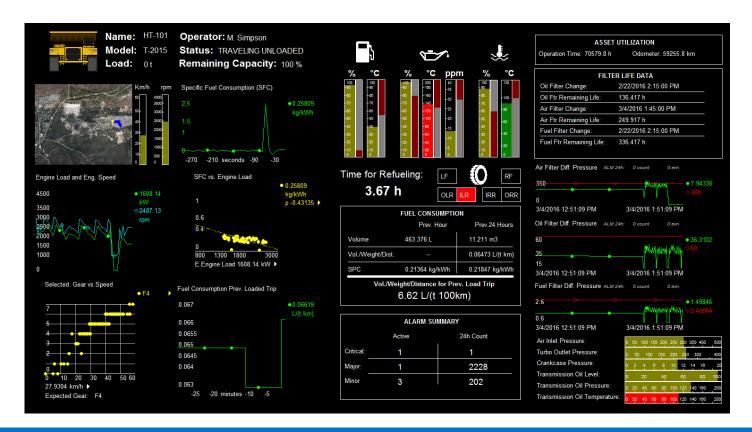
2. Extract

#### Each Example Kit has a User Guide File

#### ProcessBook Display.pdi



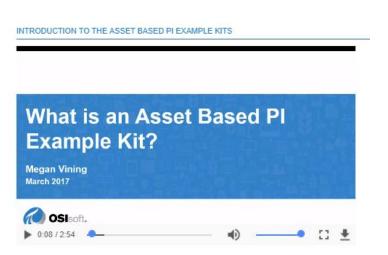
#### **ProcessBook Display from an Example Kit**





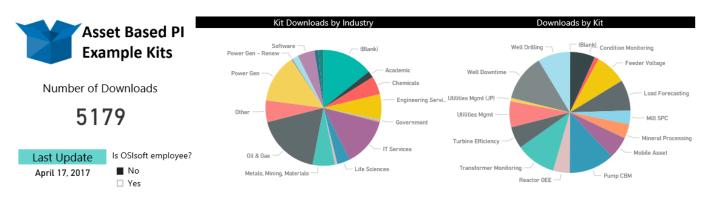
#### Video for Each Kit

https://pisquare.osisoft.com



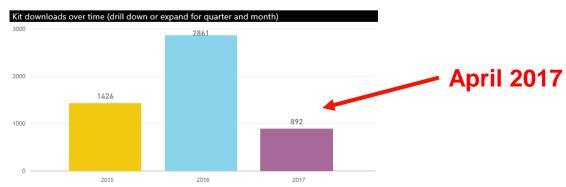


#### **Examples Kits download are increasing rapidly**

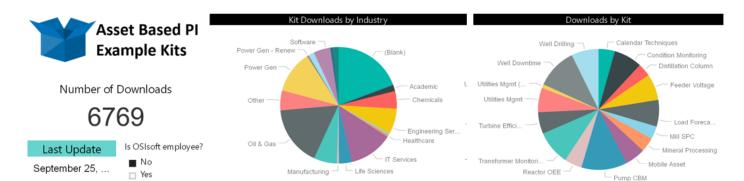


Kit Downloads by Country



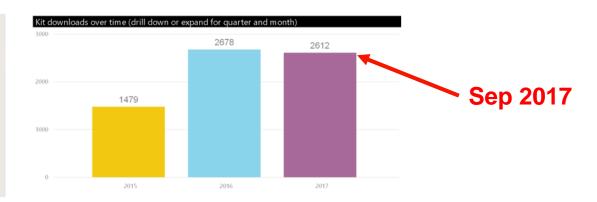


#### **Examples Kits download are increasing rapidly**



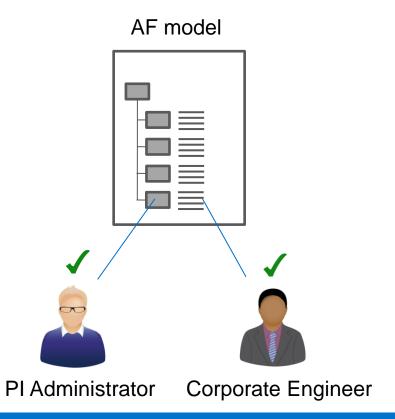
Kit Downloads by Country



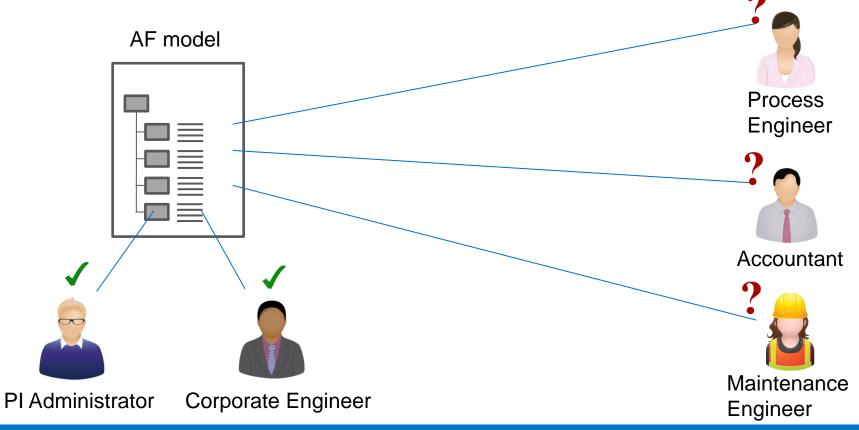


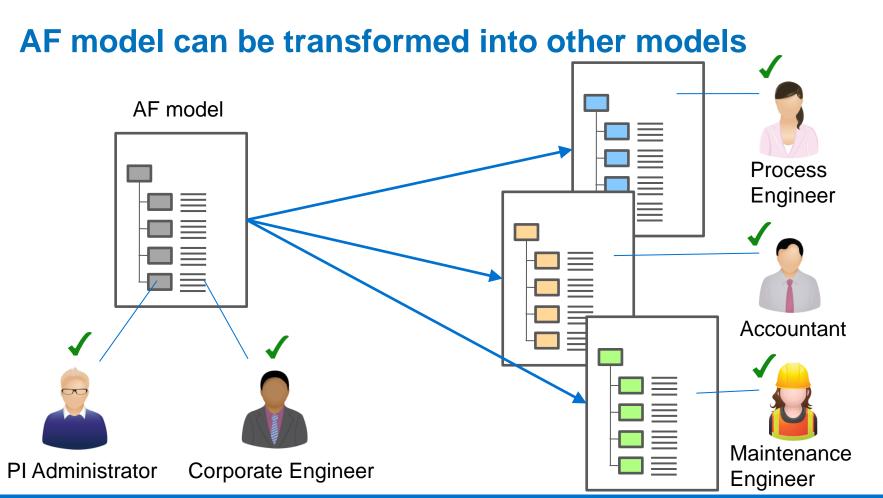
#### **Transform AF models**

#### First AF model satisfies a need



#### Other users may have different needs







#### **Introducing AF Transformer**

- Transforms source AF model into one or more destination models
  - Searches for data in source AF via a shape
  - Specify output shape
  - Write data to destination AF

Configuration via XML scripting. Best suited for technical or development role

#### **Example: Electrical Distribution**



































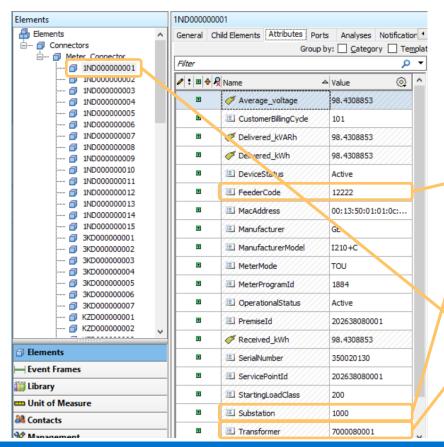
**Substations** 

**Feeders** 

**Transformers** 

Meters

#### AF reference model for meters



Substation



FeederCode



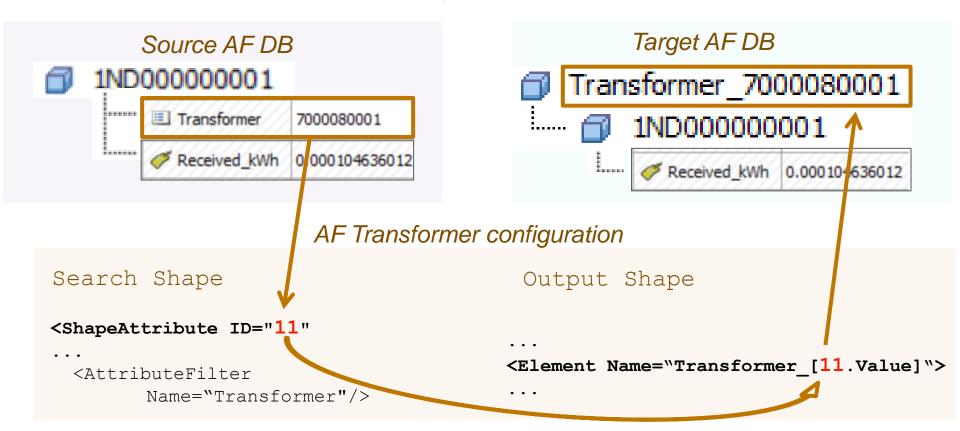
**Transformer** 



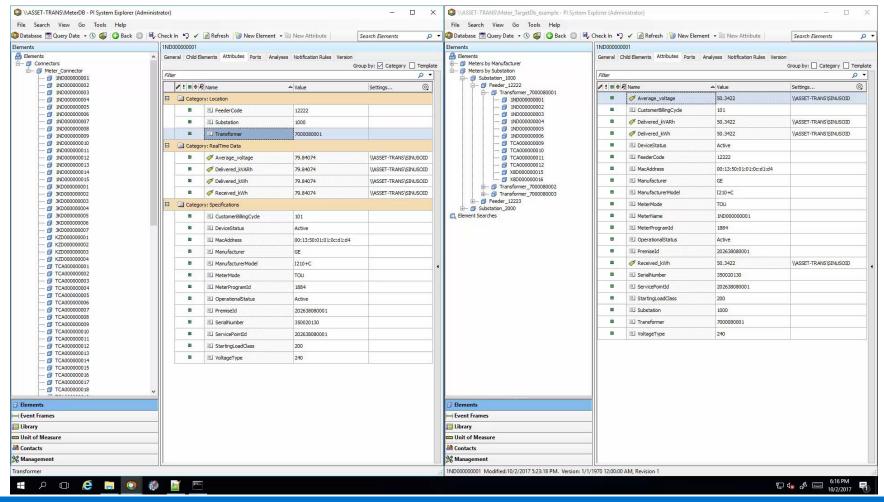
Meter



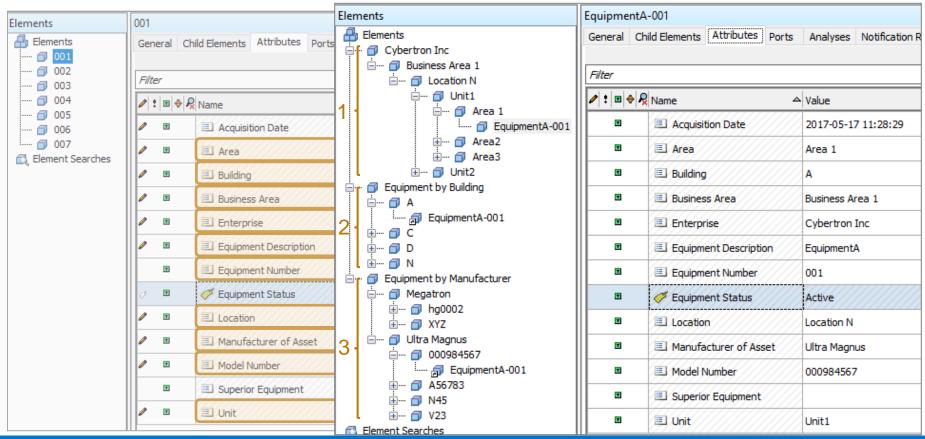
#### Transform AF models using XML script



#### **AF Transformer demo**

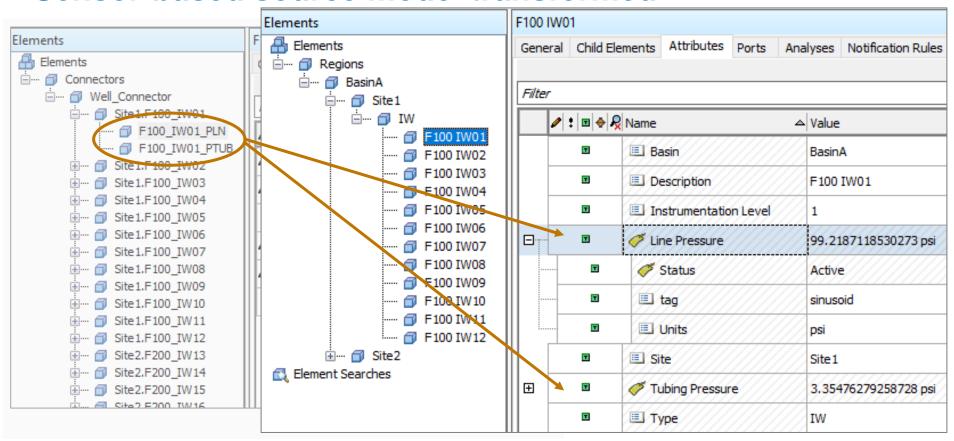


#### Multiple models from one. Equipment by reference.



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#### Sensor-based source model transformed



#### Roadmap for the AF Transformer

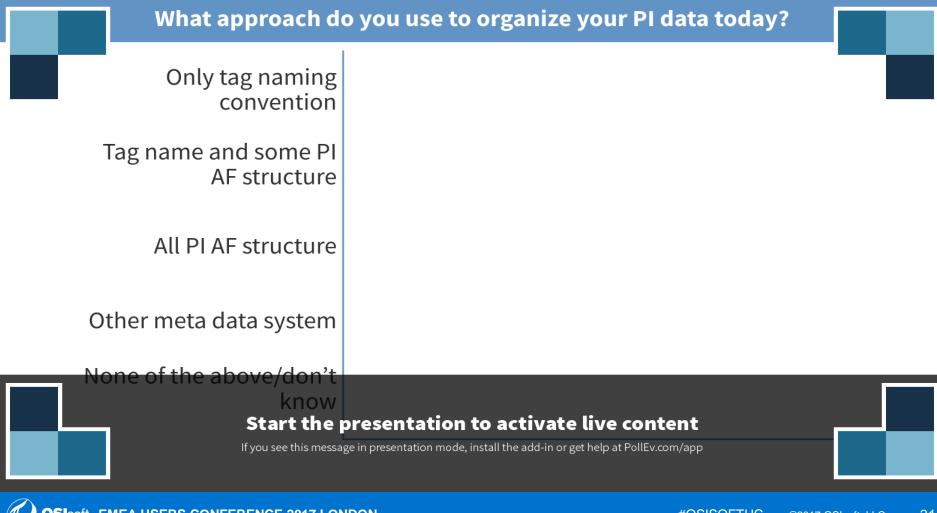
- First release 4Q 2017 with limited distribution
  - Runs manually or as Windows scheduled task
  - Transforms defined using XML script
  - Examples included
- Second release 2018 general availability
  - Runs as service and updates automatically

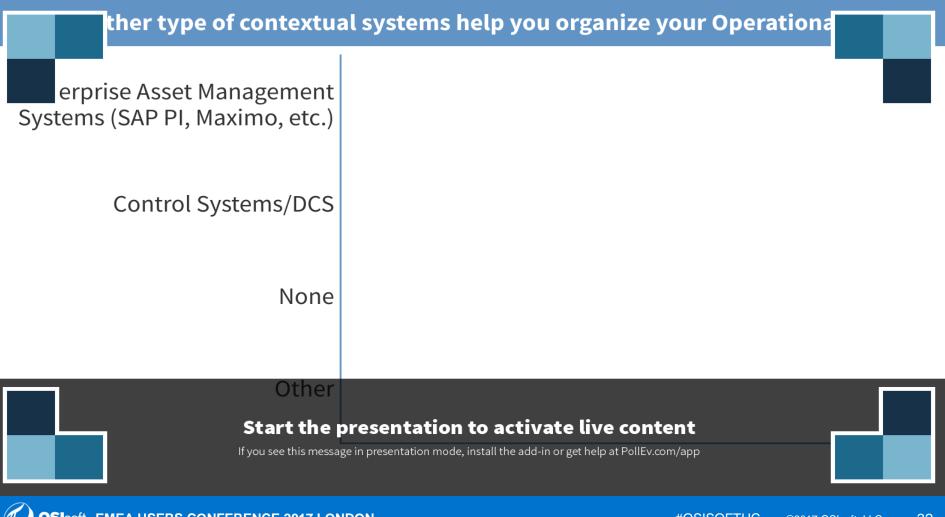
## **Enterprise Asset Management**

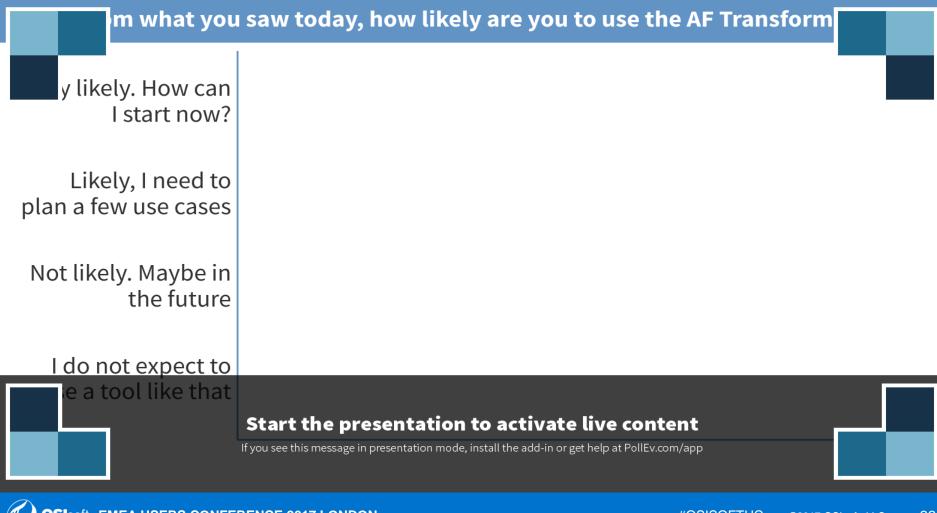
#### Improved enterprise deployment of the PI System



We need a **reliable and effective process** to seamlessly **promote and replicate** operational assets and data, so that **process models and best practices** are shared throughout the enterprise.







#### nat use cases for AF Transformer apply to you and your organizatio

I Connector reference models to fit into my AF model

A site or plant model so it fits the corporate standard

Corporate standard model to something usable by the site or plant

A shape usable by certain business applications (like OEE or CBM)

A shape usable by specific group of

users

Start the presentation to activate live content

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#### uld be the most helpful to enable an enterprise wide asset based Pl

e efficient way to maintain your asset models (keeping things in sync with the real world)

Migration of existing analytics/displays to an asset based system

Access to qualified resource the do the work

An automated way to find similarities across assets

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#### s the most compelling reason for you to adopt an asset-based PI Sy

ake the PI System more manageable/scalable for Operations (plant engineers)

Make the data more accessible to the rest of the business

Help solve a specific operational objective (OEE, CBM, Predictive Maint., etc)

Allow the data to be more easily consumed by other business systems (big data project, SAP, etc.)

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Other

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#### ld you define success for implementing an asset based PI System in **1-2 years?**

rroject based asset models to support specific operations or business objectives

Developed sufficient expertise to build and maintain process models

Comprehensive asset based models for operations

Multiple models to solve operations and business problems

I don't know

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### Husain Al-Shaikh halshaikh@osisoft.com

Systems Engineer



tlebay@osisoft.com

**Product Manager** 



ccoen@osisoft.com

**Product Manager** 







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Danke

谢谢

Merci

Gracias

Thank You

ありがとう

Спасибо

Obrigado